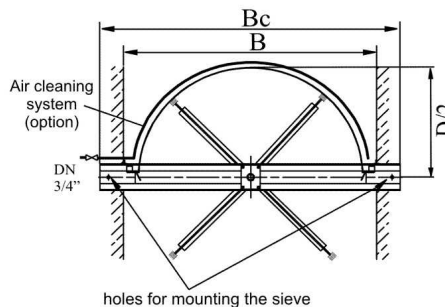
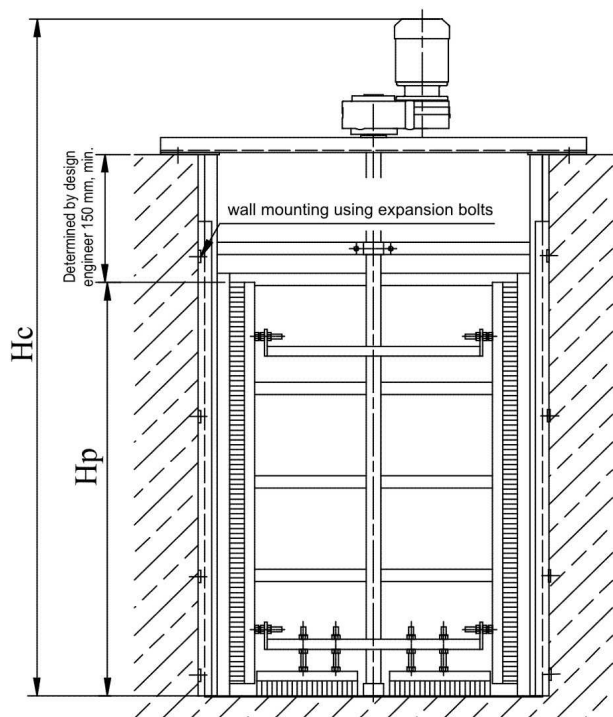


## VERTICAL SCREENS FOR FLUID BED DF BV/DV



### VERTICAL SCREENS FOR FLUID BED DF BV/DV

The screens DF BV/DV are intended mainly to provide an alternative to the traditional design solutions of separation of the FBR pellets from municipal wastewater. Wastewater is let in perpendicularly onto concaved perforated stainless steel screen with the open area depending on the desired filtration degree and influent properties. The pellets suspended in the fluid are filtered out by the perforation and removed by rakes attached to the rotating central shaft while wastewater is let through to the next treatment stages. The rakes are made of abrasion-resistant material and are adjustable. Optionally, the screen DF BV/DF can be provided with compressed air cleaning system for cleaning the perforation. The stainless steel construction has proven itself in application and assures longtime maintenance free operation.

### FEATURES

- wide range of perforation pattern, round or slotted
- hermetic gear motor drive
- possible retrofitting in existing facilities
- EN 1.4301 grade stainless steel construction

### OPERATION RECOMMENDATIONS

For correct operation and for protection of the reactor and of the screen DF BV/DV against damage by big solids, the treatment facility must be provided with upstream influent screens having perforation by at least 30% finer than that of the DF BV/DV filter screen. Additionally, it is advised to use a hydraulic separator in order to relieve the screen from the thrust exerted by the FBR pellets. For best results, it is recommend to install the screen DF BV/DV in a separate chamber to enable wastewater inflow emergency shutting off.

### SPECIFICATIONS

Parameter Version	Water volume Q [m <sup>3</sup> /h]	Wastewater volume Q [m <sup>3</sup> /h]	Depth D [mm]	Channel width B [mm]	Total width Bc [mm]	Total height Hc [mm]	Height of perforation Hp [mm]	Gear motor power P [kW]
BV 2	40	20	600	680	980	790	290	0,12
BV 4	80	45	600	680	980	1150	650	0,12
BV 5	120	60	600	680	980	1250	750	0,12
BV 6	150	75	600	680	980	1540	1040	0,12
DV 8	270	135	1150	1400	1700	1600	520	0,12
DV 12	408	204	1150	1400	1700	1990	910	0,25
DV 16	540	270	1150	1400	1700	2370	1290	0,25
DV 20	630	315	1150	1400	1700	2760	1680	0,37
DV 24	840	420	1150	1400	1700	3160	2080	0,37
DV 45	1020	510	1900	2150	2550	3200	2120	0,55
DV 60	2040	1020	1900	2150	2550	4000	2920	0,75
DV 75	2580	1290	1900	2150	2550	4710	3630	1,1
DV 90	3240	1620	1900	2150	2550	5460	4380	1,5

On request, the unit can be modified to customer's requirements.